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AMENDMENTS TO THE CLAIMS

Claims 1-23 (Canceled).

Claim 24 (Withdrawn):

A process for depositing a thin film on a surface of a substrate, the

process comprising:

introducing a vapor of a first material comprising one or more compounds claimed in claim

59 to the substrate wherein at least a portion of the vapor of the first material adsorbs on the surface

of the substrate; then

introducing a vapor of a second material wherein the second material activates the first

material to react and form the thin film on the surface of the substrate.;

wherein the thin film comprises at least two elements and the thin film is substantially free

of elements of the second material;

Claim 25 (Withdrawn):

The process of claim 24, further comprising:

removing at least a portion of the vapor of the first material that has not adsorbed on the

substrate from the vicinity of the substrate before introducing the vapor of the second material; and

removing at least a portion of the vapor of the second material from the vicinity of the

substrate.

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Claim 26 (Withdrawn):

The process of claim 24, wherein the thin film comprises tungsten and

nitrogen.

Claim 27 (Withdrawn):

The process of claim 24, wherein the first material comprises

tungsten, molybdenum, or mixtures thereof.

Claim 28 (Withdrawn):

The process of claim 24, wherein the first material comprises one or

more compounds comprising tungsten-nitrogen bonds.

Claims 29-32 (Canceled).

Claim 33 (Withdrawn):

The process of claim 24, wherein the first material comprises one or

more compounds comprising molybdenum-nitrogen bonds.

Claim 34 (Withdrawn):

The process of claim 24, wherein the second material comprises a

Lewis base.

Claim 35 (Withdrawn):

The process of claim 34, wherein the Lewis base comprises ammonia.

Claim 36 (Withdrawn):

The process of claim 34, wherein the Lewis base comprises pyridine.

Claim 37 (Withdrawn):

The process of claim 24, wherein the second material comprises a

hydrogen plasma.

Claim 38 (Withdrawn):

The process of claim 24, wherein the second material comprises at

least one hydrogen atom.

Claim 39 (Withdrawn):

The process of claim 24, wherein the substrate is maintained at a

temperature in the range of 200 °C to 400 °C.

Claim 40 (Withdrawn):

A process for depositing a thin film on a surface of a substrate, the

process comprising:

introducing a vapor of a first material and a vapor of a second material to the surface of the

substrate; wherein

the first material comprises one or more compounds claimed in claim 59. comprising a

tungsten-nitrogen bond; and the second material comprises a Lewis base.

Claim 41 (Canceled).

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Claim 42 (Withdrawn): The process of claim 40, wherein the Met is W. the one or more compounds comprising tungsten-nitrogen bonds have the general formula

in which Rⁿ represents alkyl groups, arylalkyl groups, alkenylalkyl groups, alkynylalkyl groups, fluoroalkyl groups or alkyl groups substituted with other atoms or groups selected to enhance the volatility of the compound, where Rⁿ is any one of R¹ through R¹⁰ and where the Rⁿ may be the same or different from each other.

Claims 43-44 (Canceled).

Claim 45 (Withdrawn): The process of claim 40, wherein the Lewis base second material comprises ammonia.

Claim 46 (Withdrawn): The process of claim 40, wherein the Lewis base second material comprises pyridine.

Claim 47 (Withdrawn): The process of claim 40, wherein the second material comprises a hydrogen plasma.

Claim 48 (Withdrawn): The process of claim 40, wherein the second material comprises at least one hydrogen atom.

Claim 49 (Withdrawn): The process of claim 40, wherein the substrate is maintained at a temperature in the range of 200 °C to 400 °C.

Claim 50 (Withdrawn): A process for depositing a material, the process comprising: introducing a compound as claimed in claim 59 to a surface. having a formula

to a surface;

wherein Me is W or Mo, R*-represent alkyl groups, arylalkyl groups, alkenylalkyl groups, alkynylalkyl groups, fluoroalkyl groups or alkyl groups substituted with other atoms or groups selected to enhance the volatility of the compound, where R* is any one of R*-through R*- and the R*-may be the same or different from each other.

Claim 51 (Withdrawn): The process of claim 50, wherein [[Me]] the Met is W.

Claim 52 (Withdrawn): The process of claim 50, further comprising:

introducing a vapor of a second material, wherein

the compound comprises at least two elements of the deposited material; and

the deposited material is substantially free of elements of the second material.

Claim 53 (Withdrawn): The process of claim 52, wherein the second material comprises a

Lewis base.

Claim 54 (Withdrawn): The process of claim 53, wherein the Lewis base comprises ammonia.

Claim 55 (Withdrawn): The process of claim 53, wherein the Lewis base comprises pyridine.

Claim 56 (Withdrawn): The process of claim 52, wherein the second material comprises a hydrogen plasma.

Claim 57 (Withdrawn): The process of claim 52, wherein the second material comprises at least one hydrogen atom.

Claim 58 (Withdrawn): The process of claim 50, wherein the substrate is maintained at a temperature in the range of 200 °C to 400 °C.

Claim 59 (Currently Amended): A compound having a formula

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wherein [[Me]] Met is W or Mo, [[Rⁿ]] any one of R¹ through R¹⁰ independently represent alkyl

groups, arylalkyl groups, alkenylalkyl groups, alkynylalkyl groups, fluoroalkyl groups or alkyl

groups substituted with other atoms or groups selected to enhance the volatility of the compound,

where when Met is W and R^2 and $R^4 - R^{10}$ are methyl, then R^1 and R^3 are not both methyl or both

ethyl, and when Met is Mo and $R^5 - R^{10}$ are methyl, $R^1 - R^4$ are not ethyl. R^* is any one of R^4

through R¹⁰ and the R[#] may be the same or different from each other.

Claim 60 (Previously presented):

The compound of claim 59, wherein [[Me]] the Met is W.

Claims 61-71 (Canceled).

Claim 72 (New): The compound of claim 59, wherein the Met is Mo.

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